

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert J. McMillen et al. Examiner: Le Hien Luu  
Serial No.: Group Art Unit: 2152  
Filed: February 14, 2001 Docket: 5104.05  
Title: MULTICAST TRANSMISSIONS IN A MULTISTAGE INTERCONNECT  
NETWORK

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09/783923  
02/14/01

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By: Isabell Ogata

Name: Isabell Ogata

SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Submitted herewith are 35 sheets of Formal Drawings for the above-identified patent application.

Respectfully submitted,

Robert J. McMillen et al.

By their attorneys,

GATES & COOPER LLP

Howard Hughes Center  
6701 Center Drive West, Suite 1050  
Los Angeles, CA 90045  
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Date: February 14, 2001

By: George H. Gates

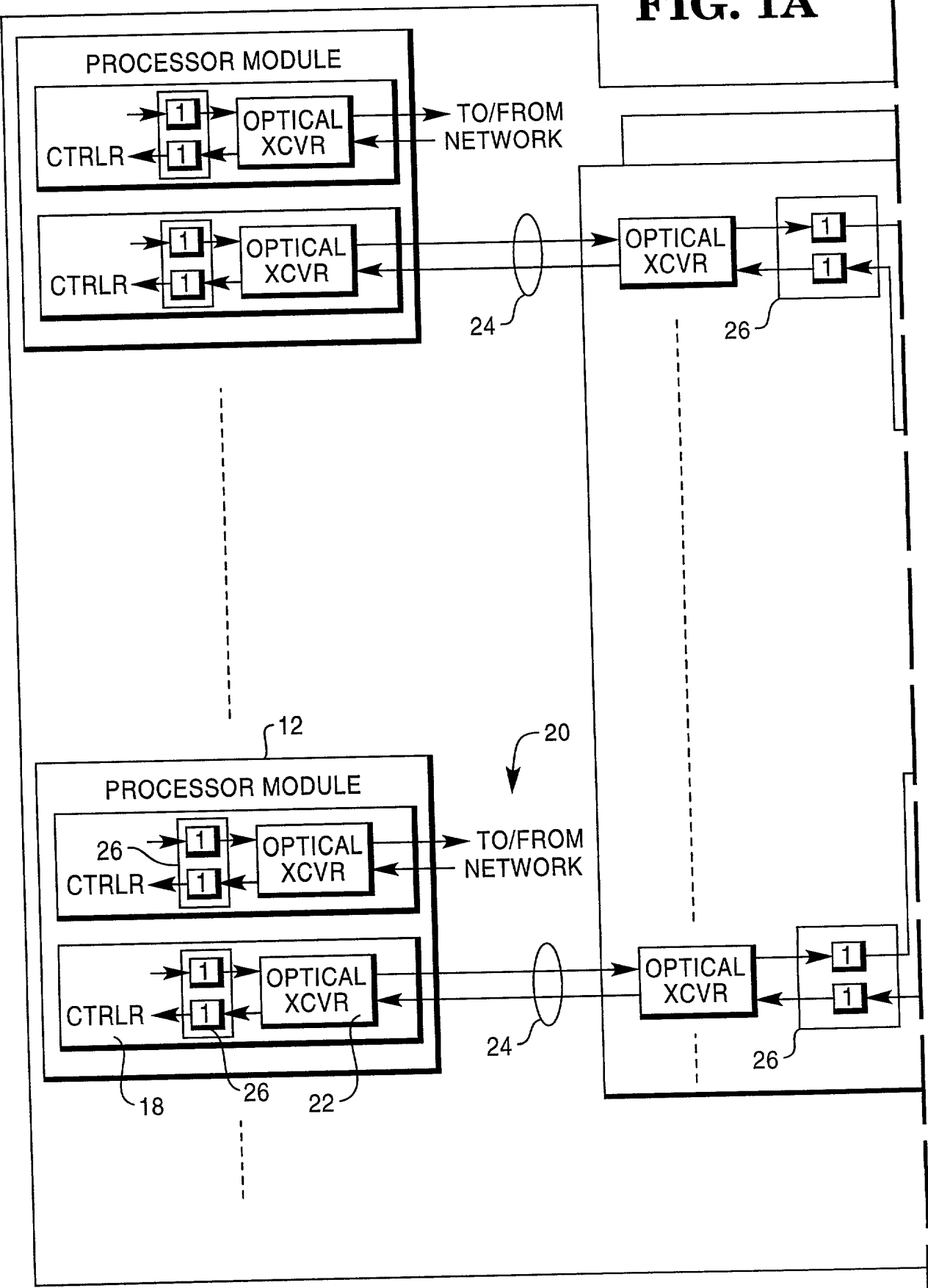
Name: George H. Gates

Reg. No.: 33,500

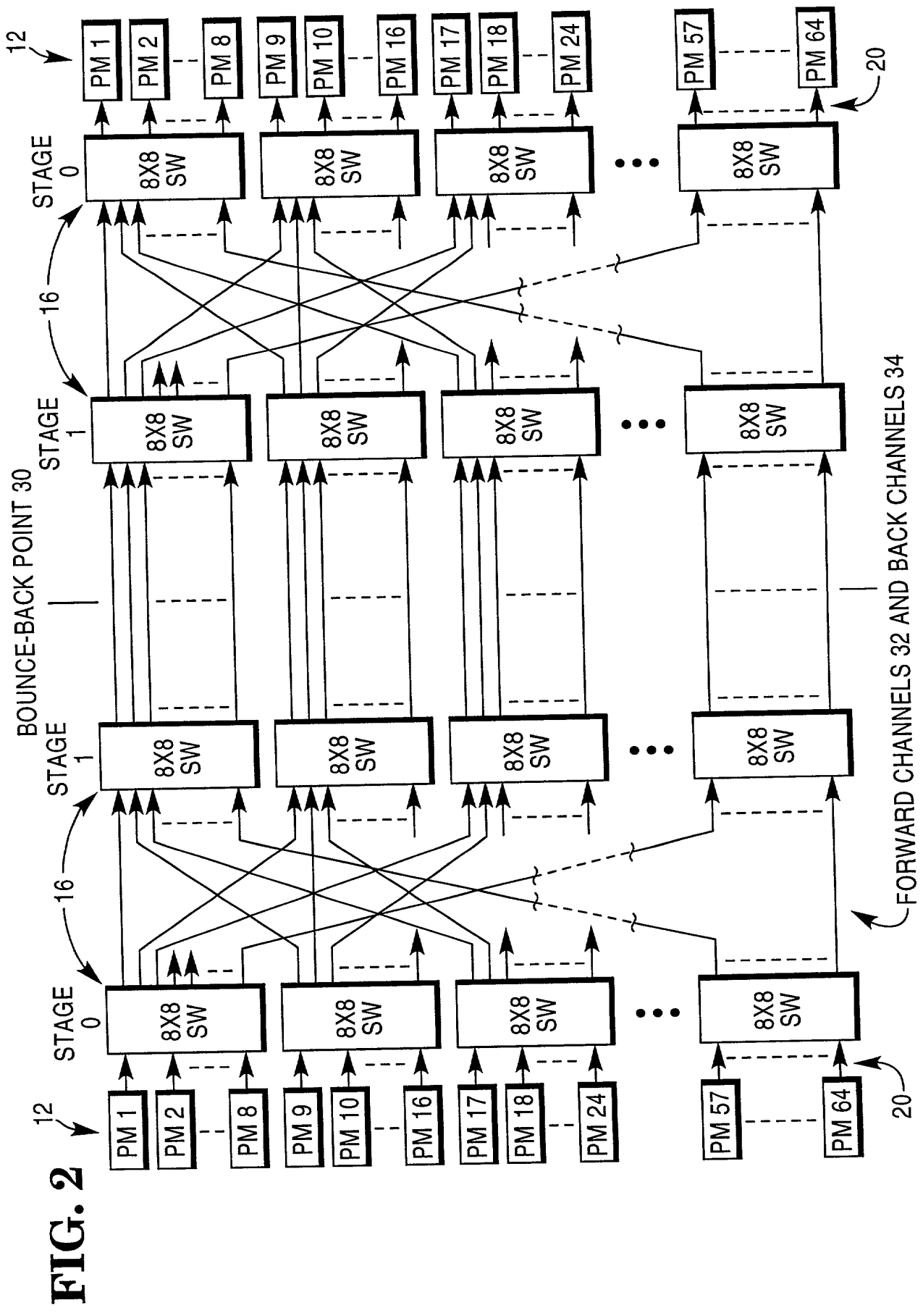
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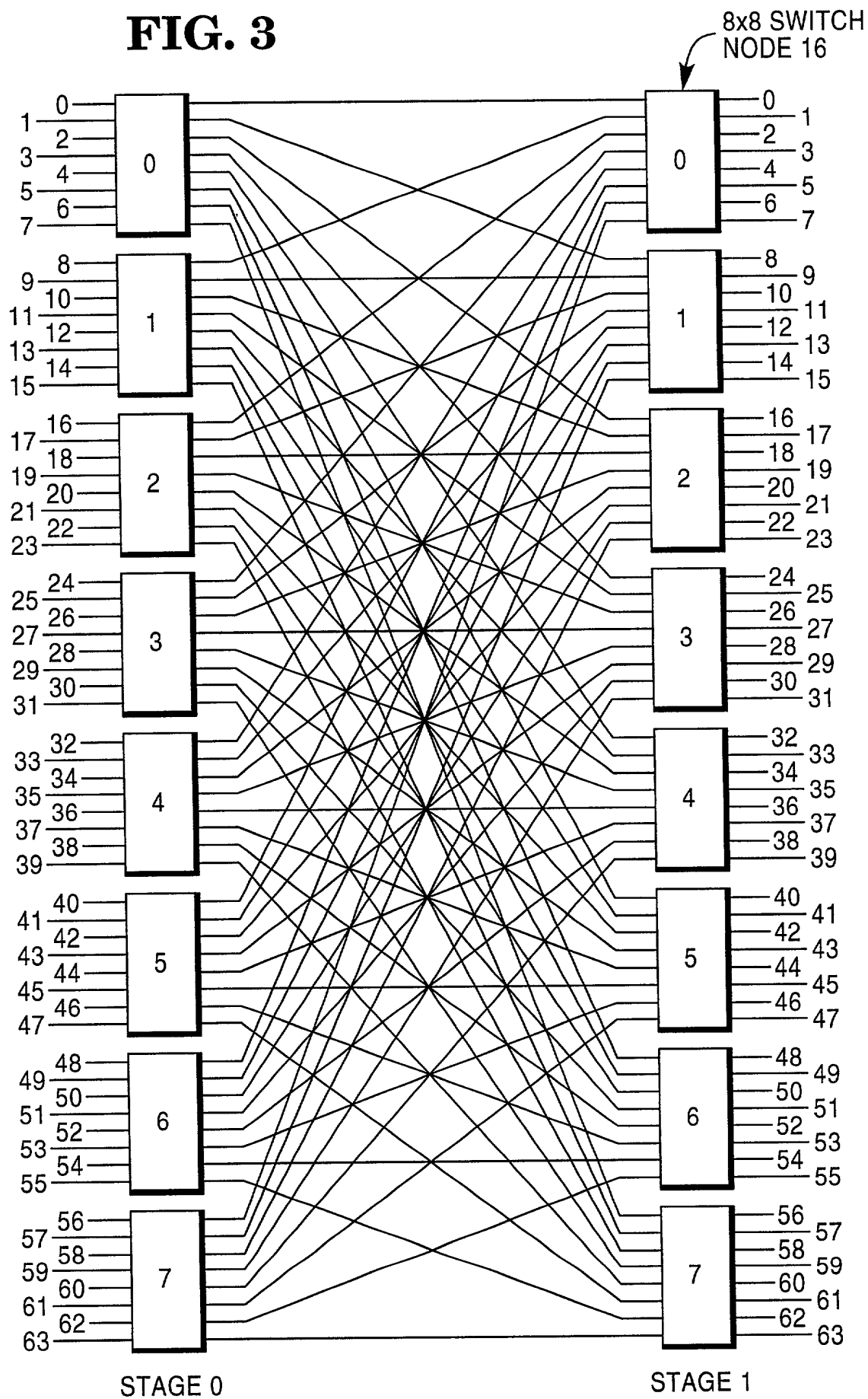
**FIG. 1A**



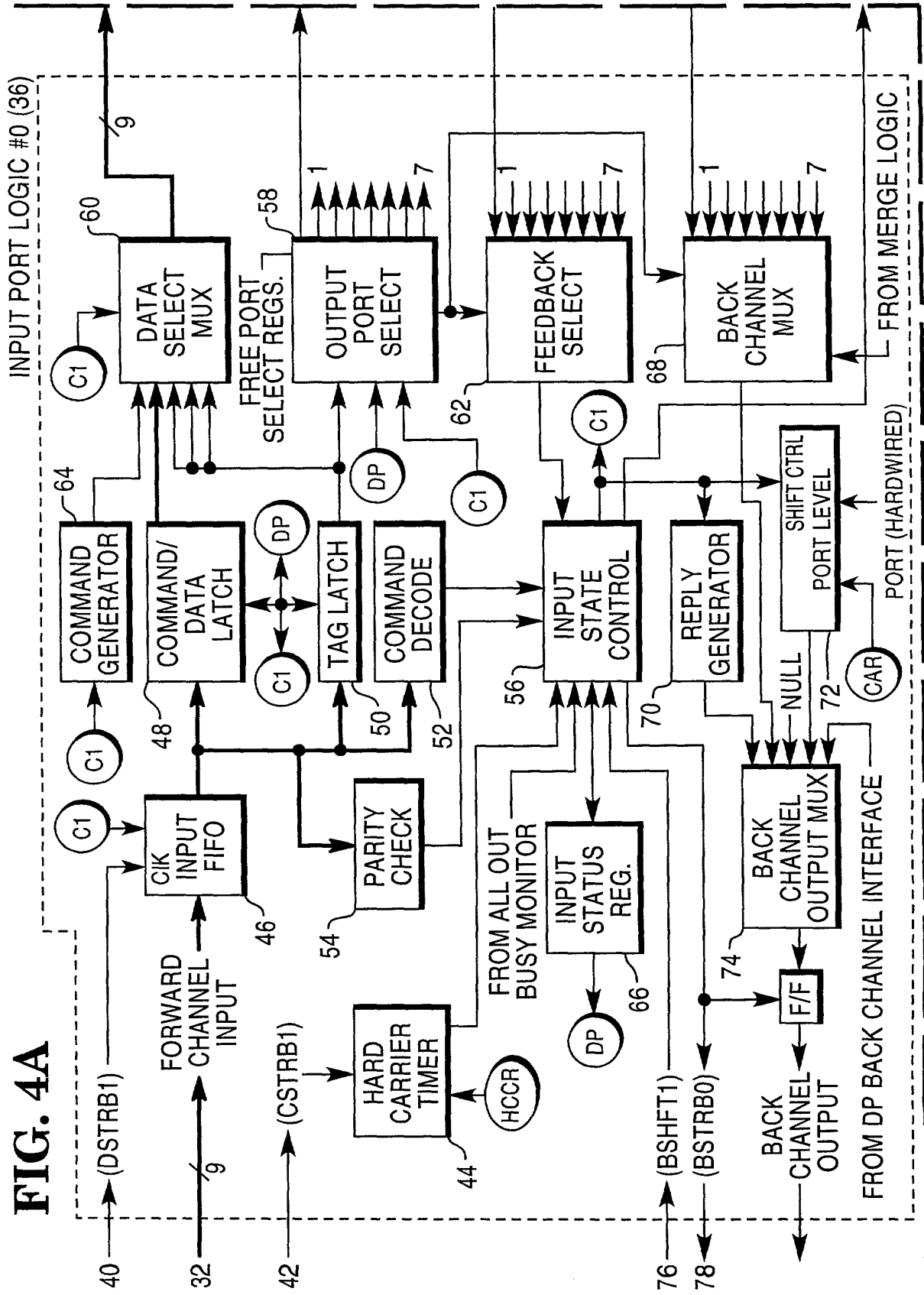
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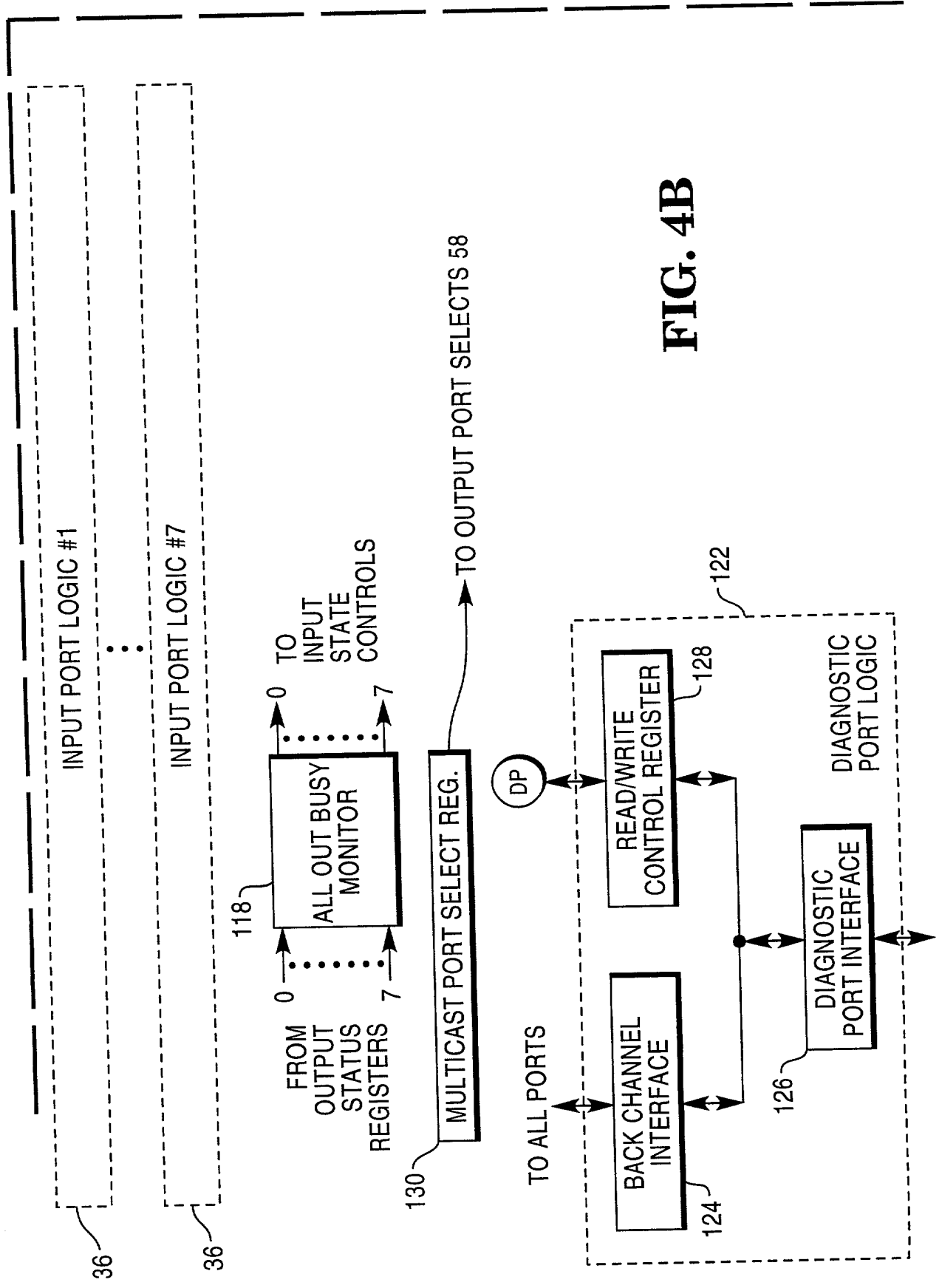


**FIG. 3**



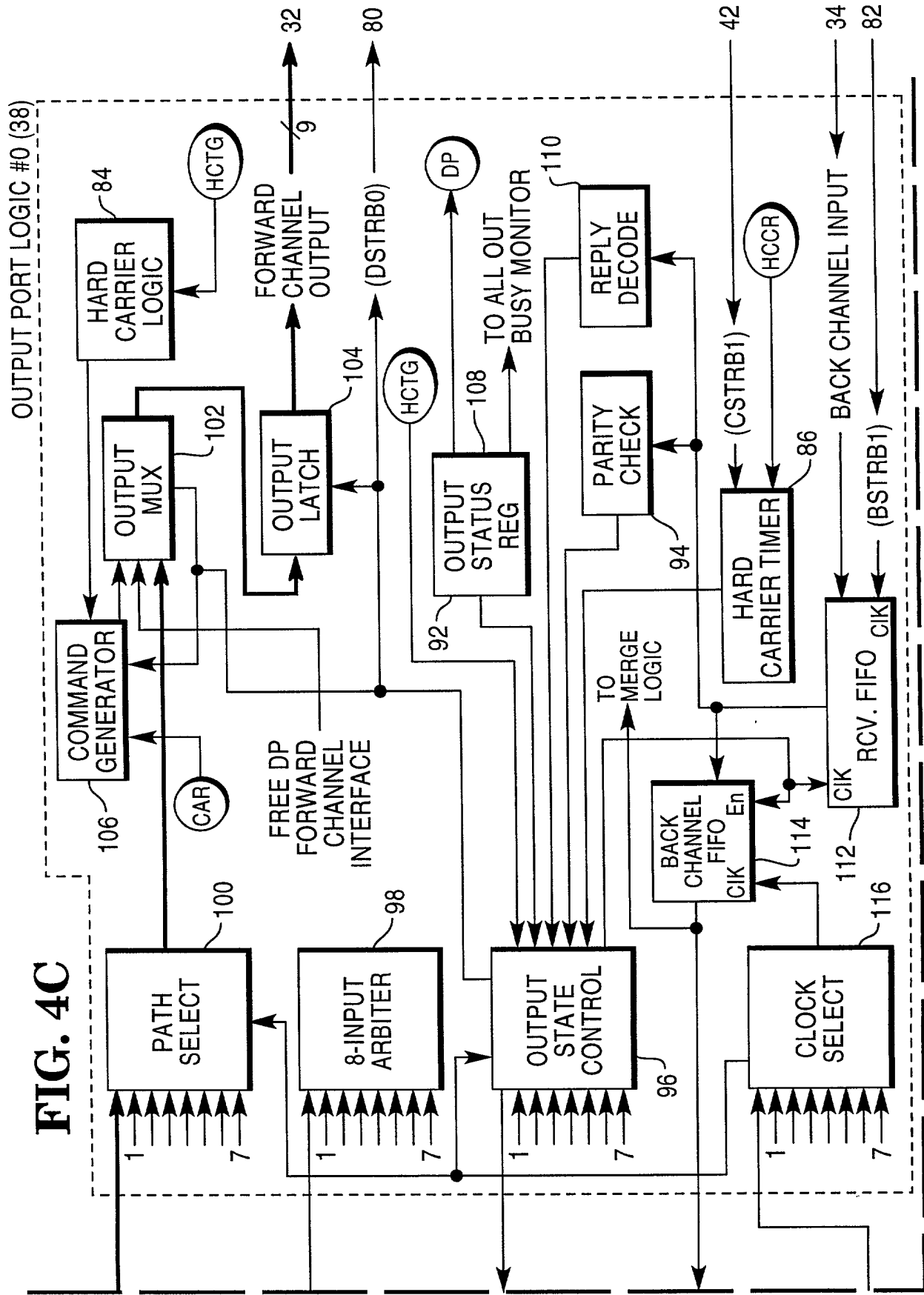
**FIG. 4A**





**FIG. 4B**

FIG. 4C





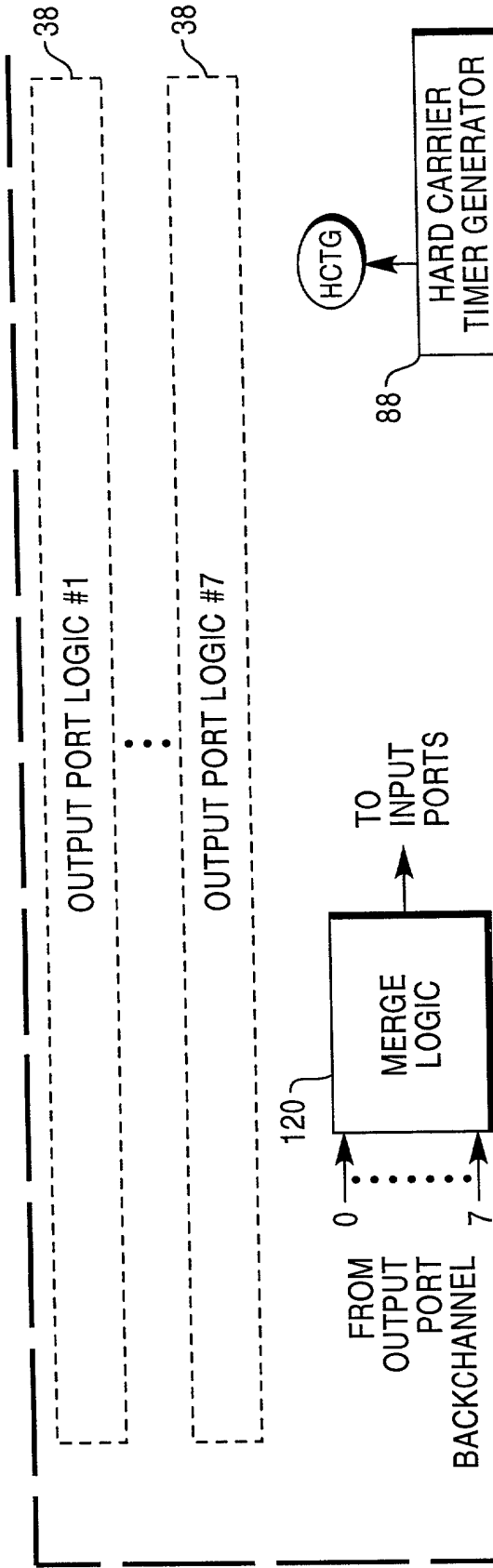
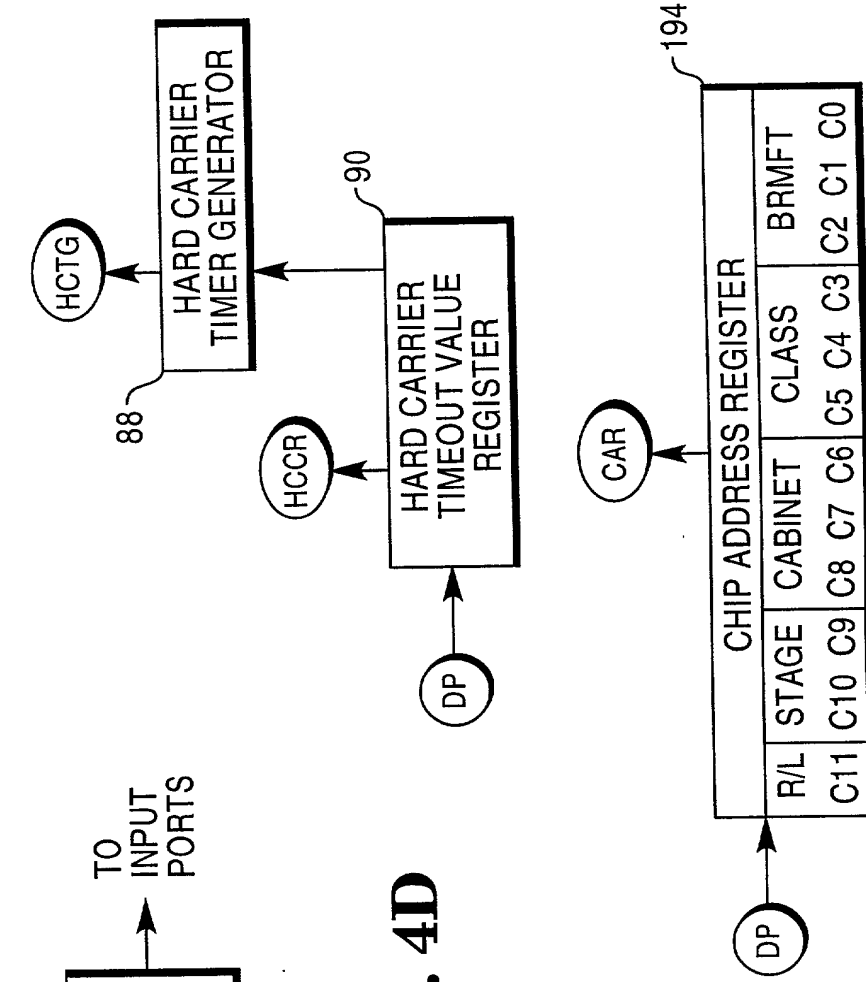


FIG. 4D

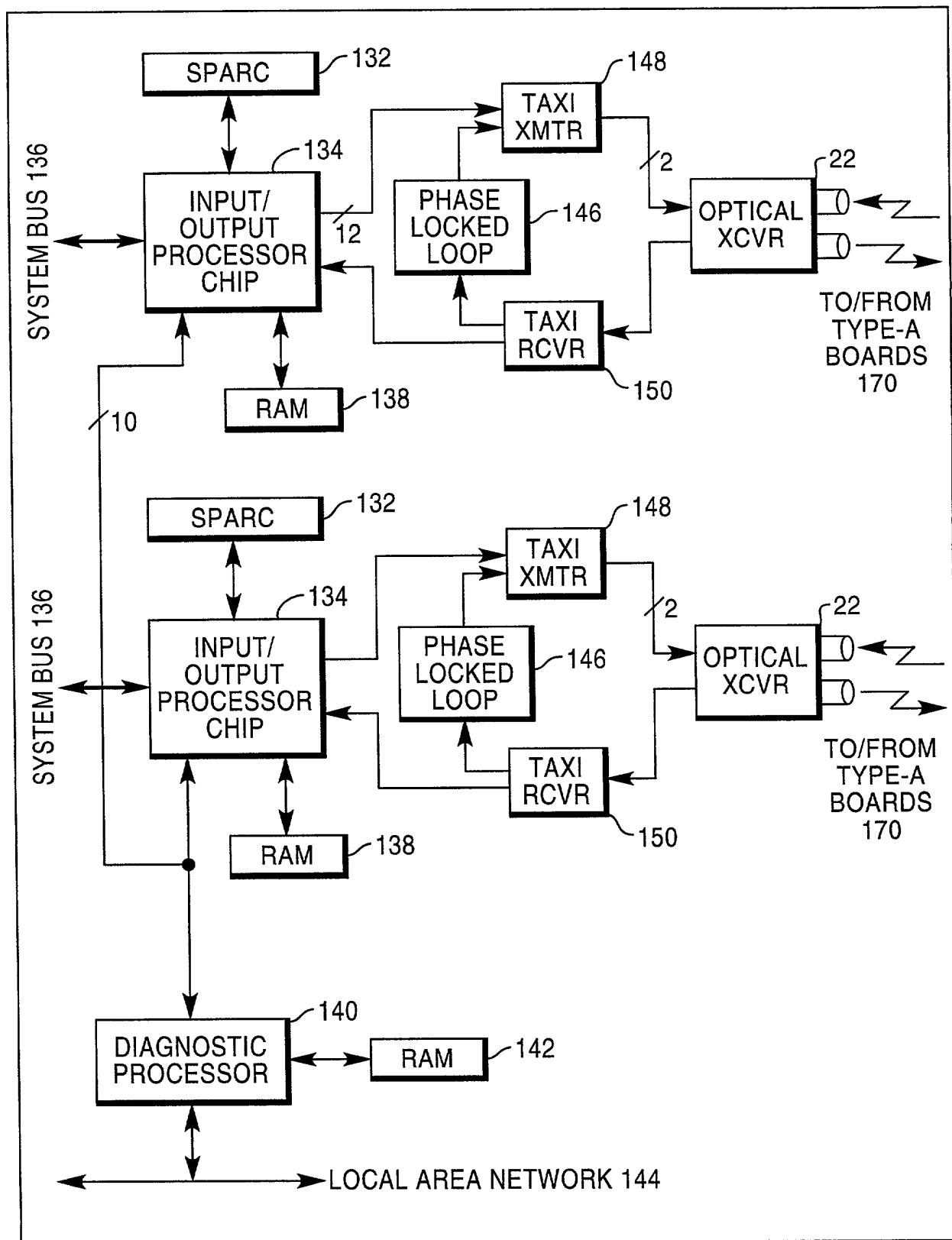
FIG. 4

FIG. 4A	FIG. 4C
FIG. 4B	FIG. 4D

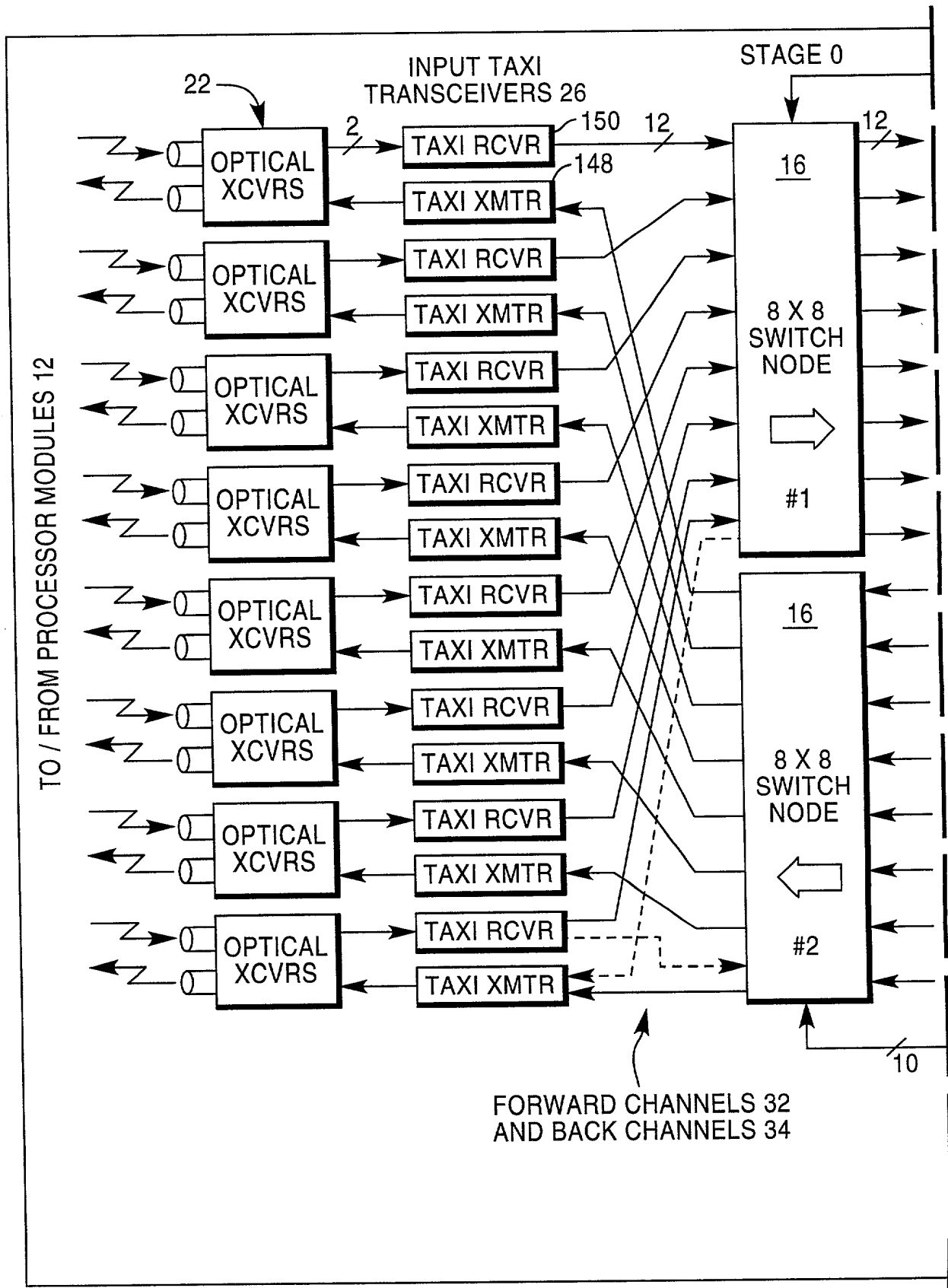


**FIG. 5**

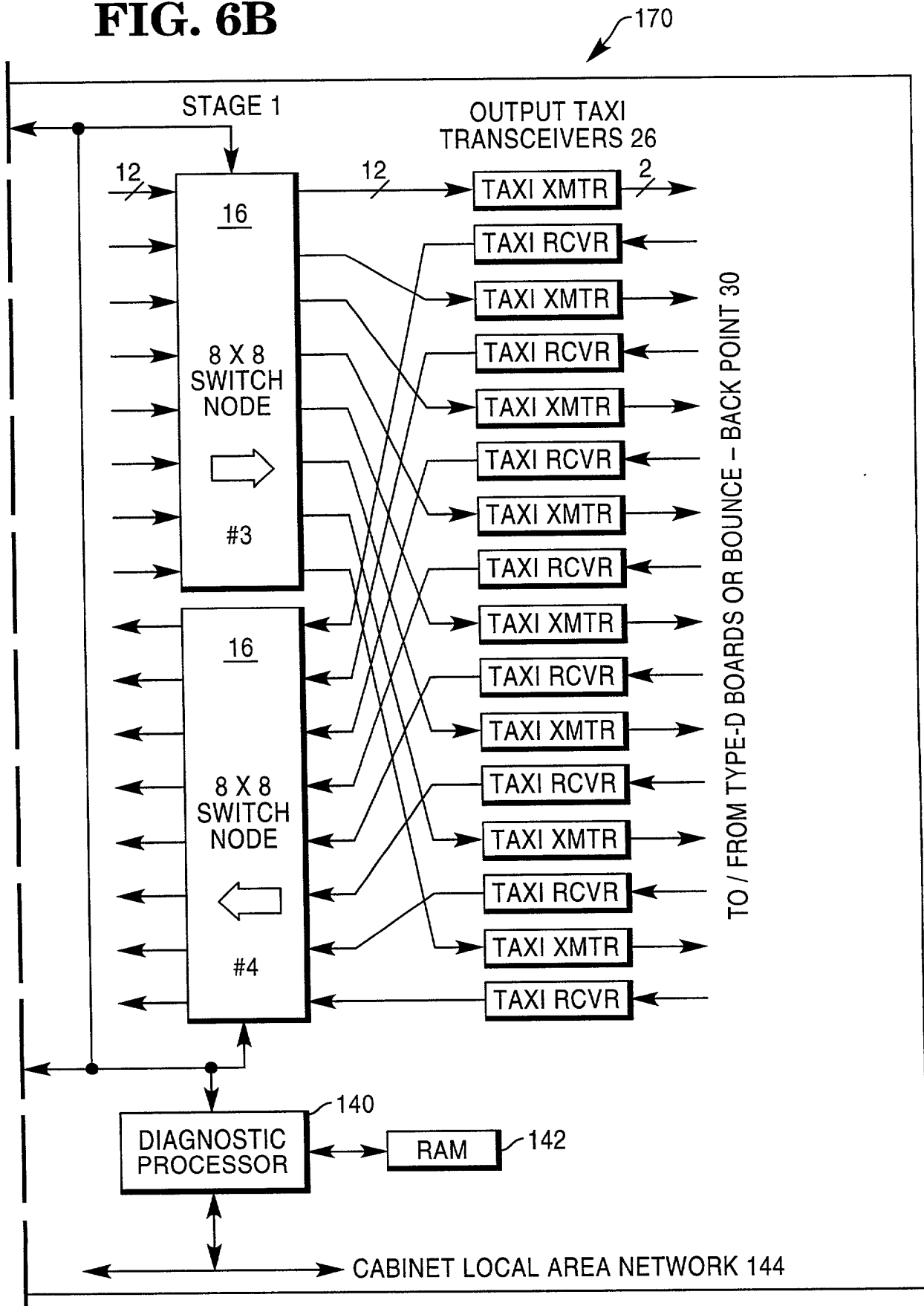
18



**FIG. 6A**



# FIG. 6B



**FIG. 7A**

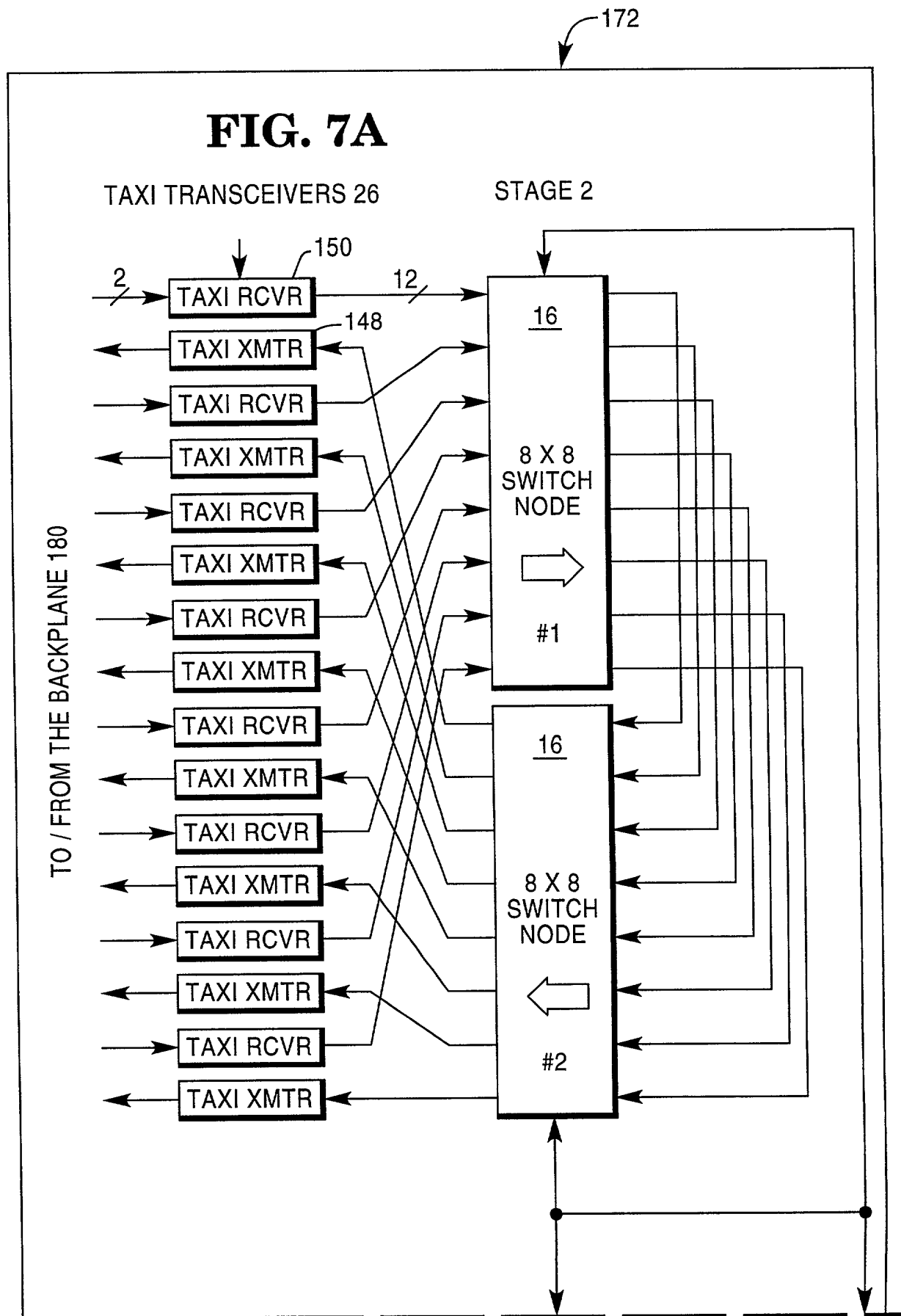
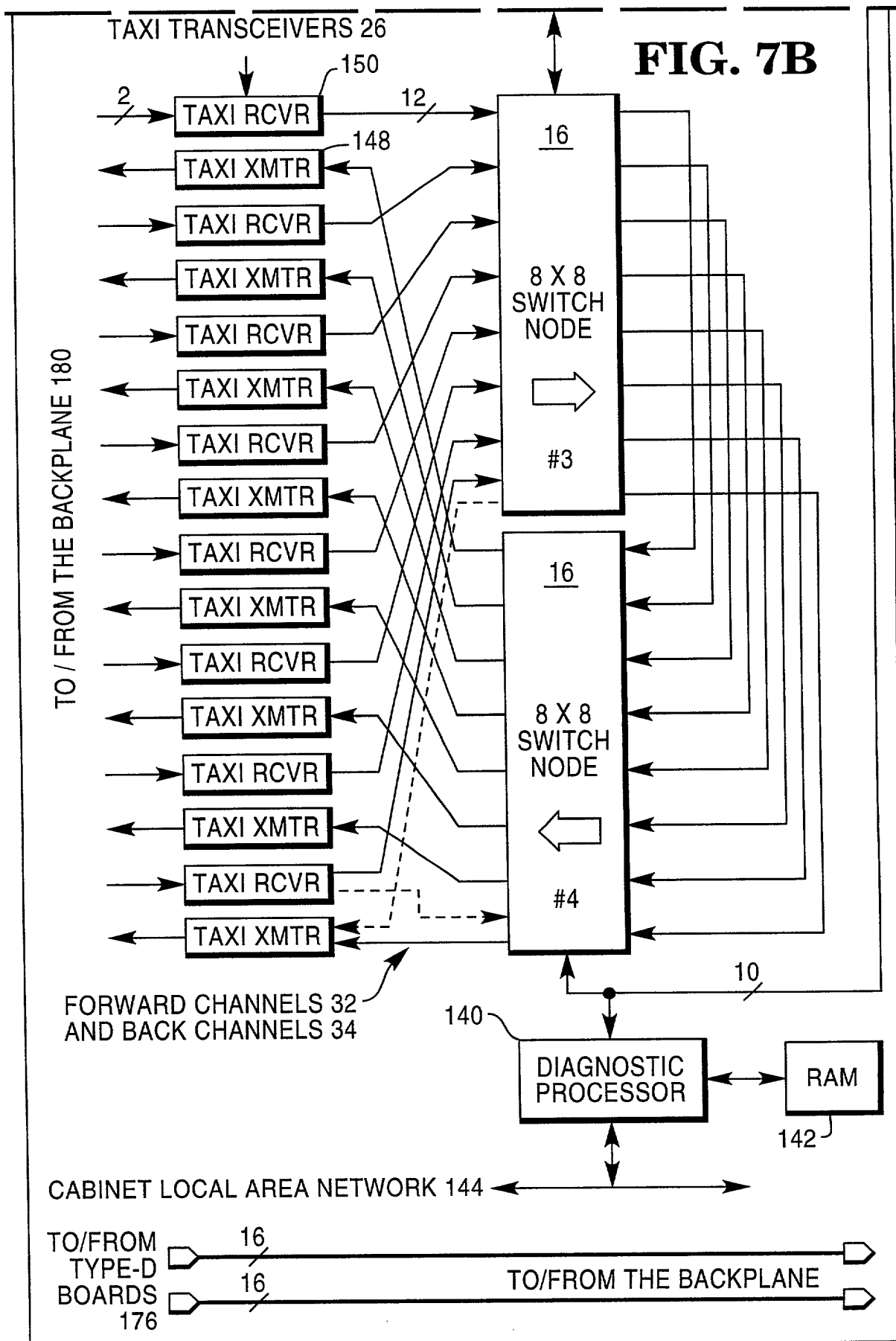
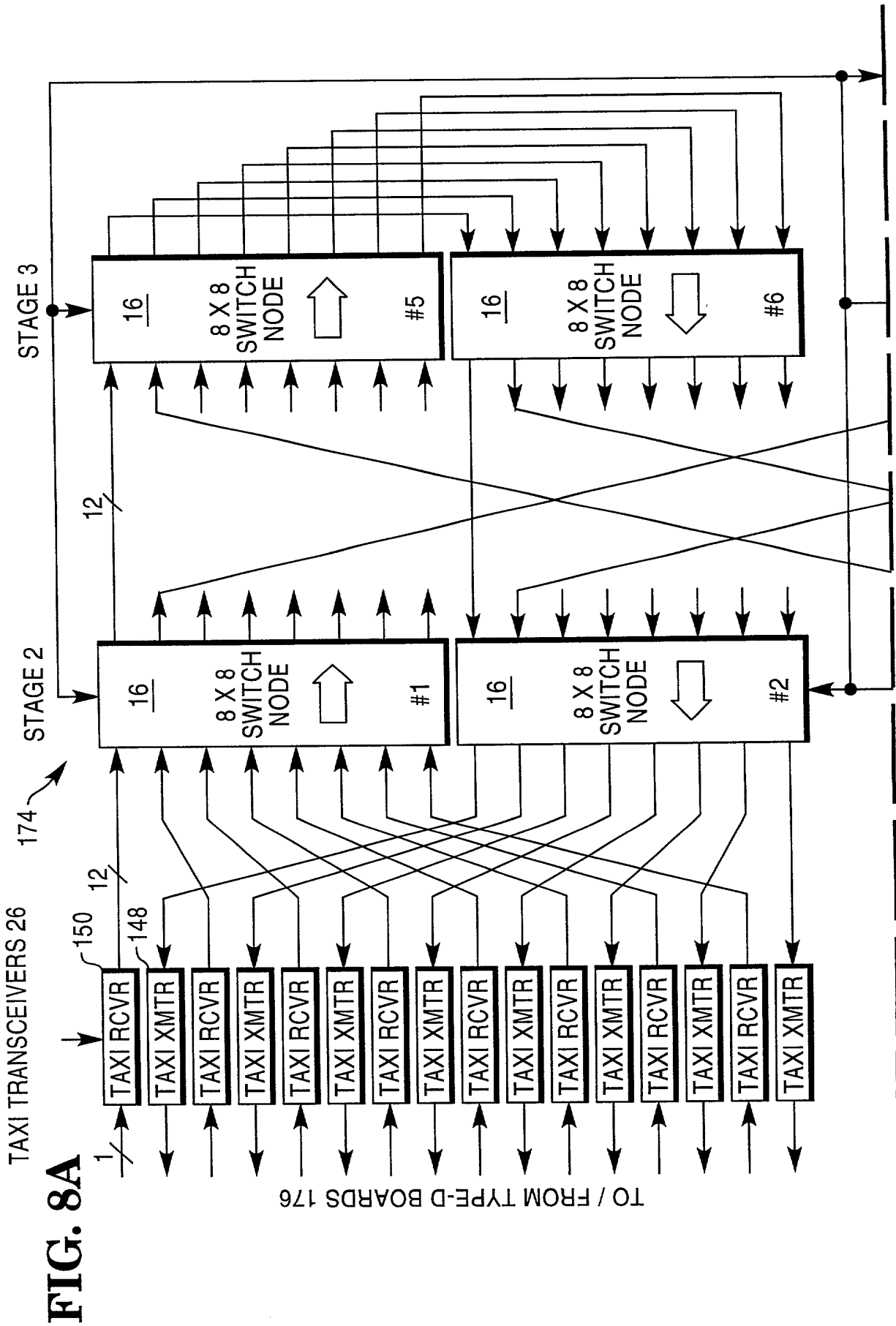


FIG. 7B





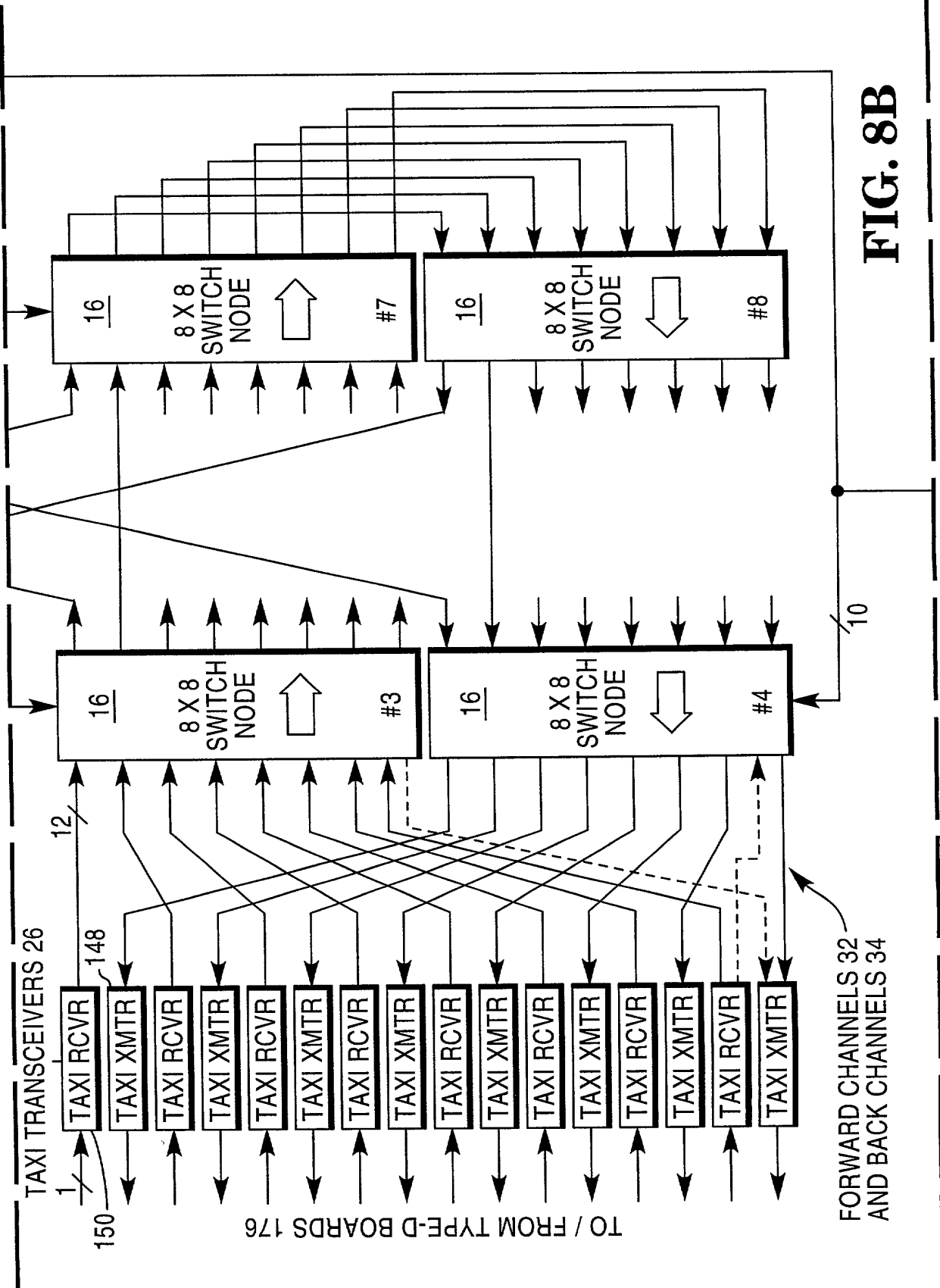
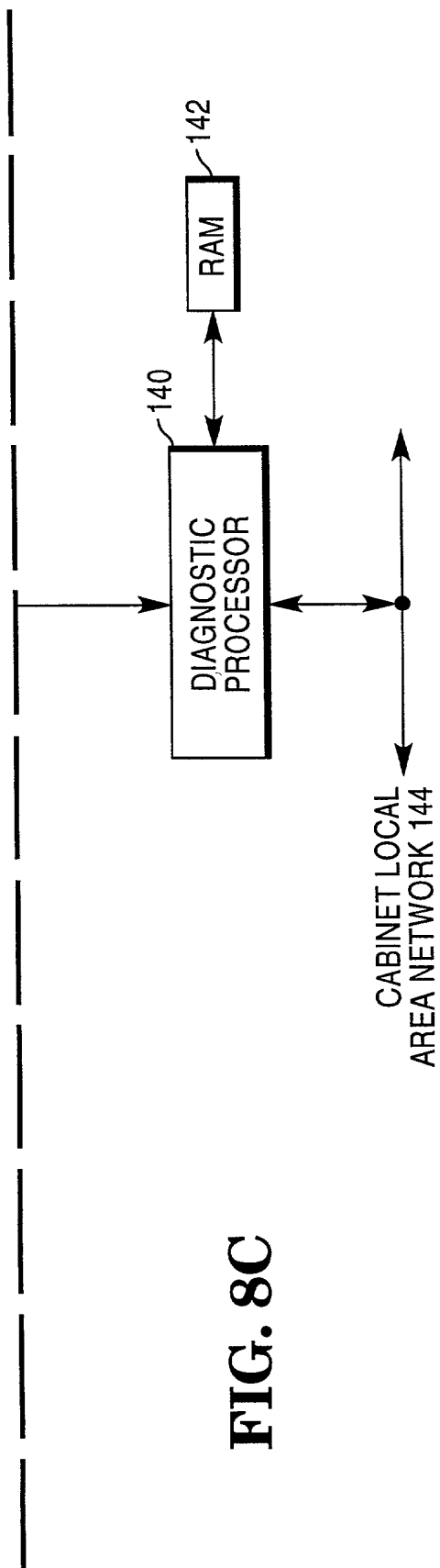


FIG. 8B



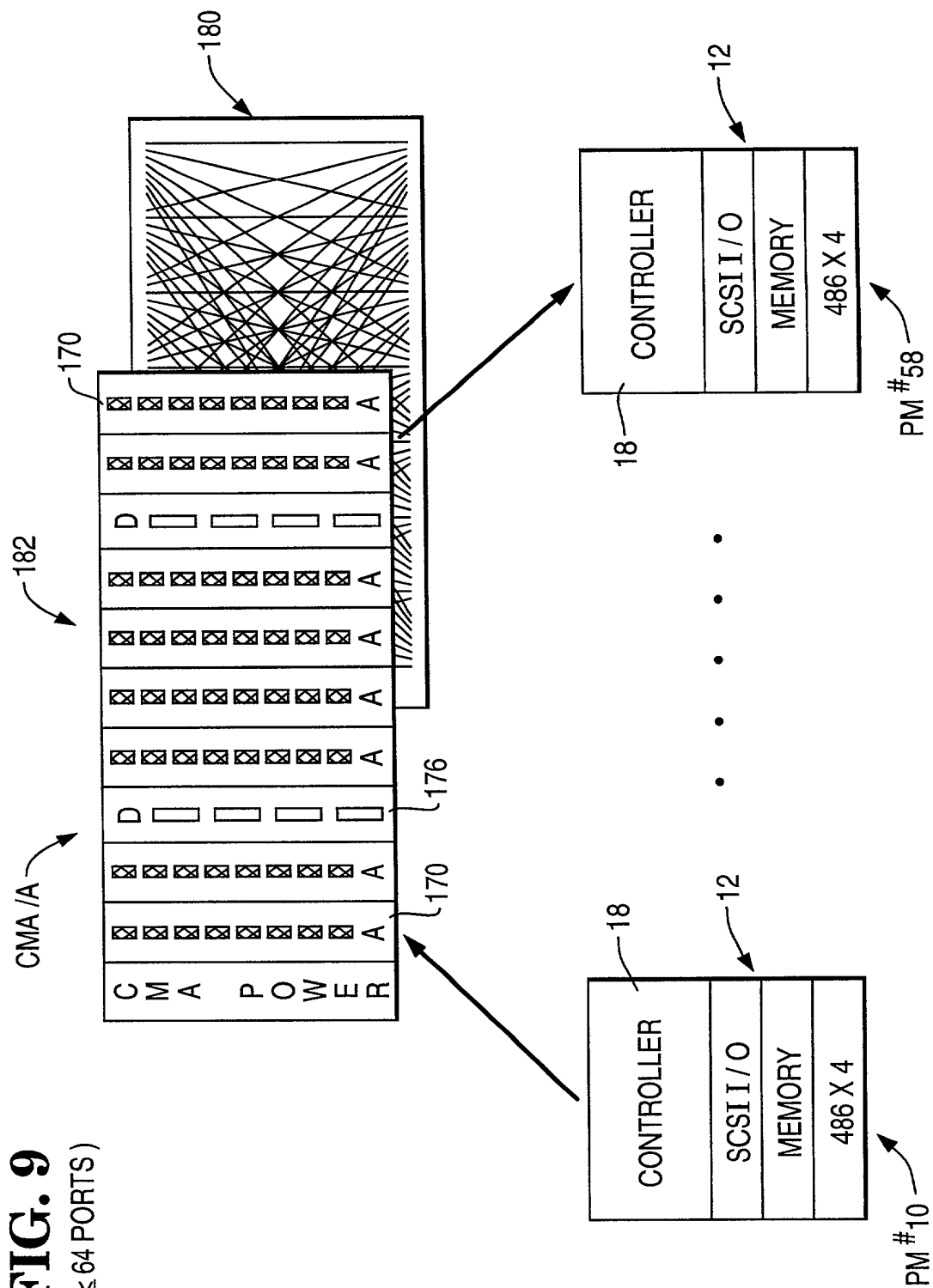


**FIG. 8C**



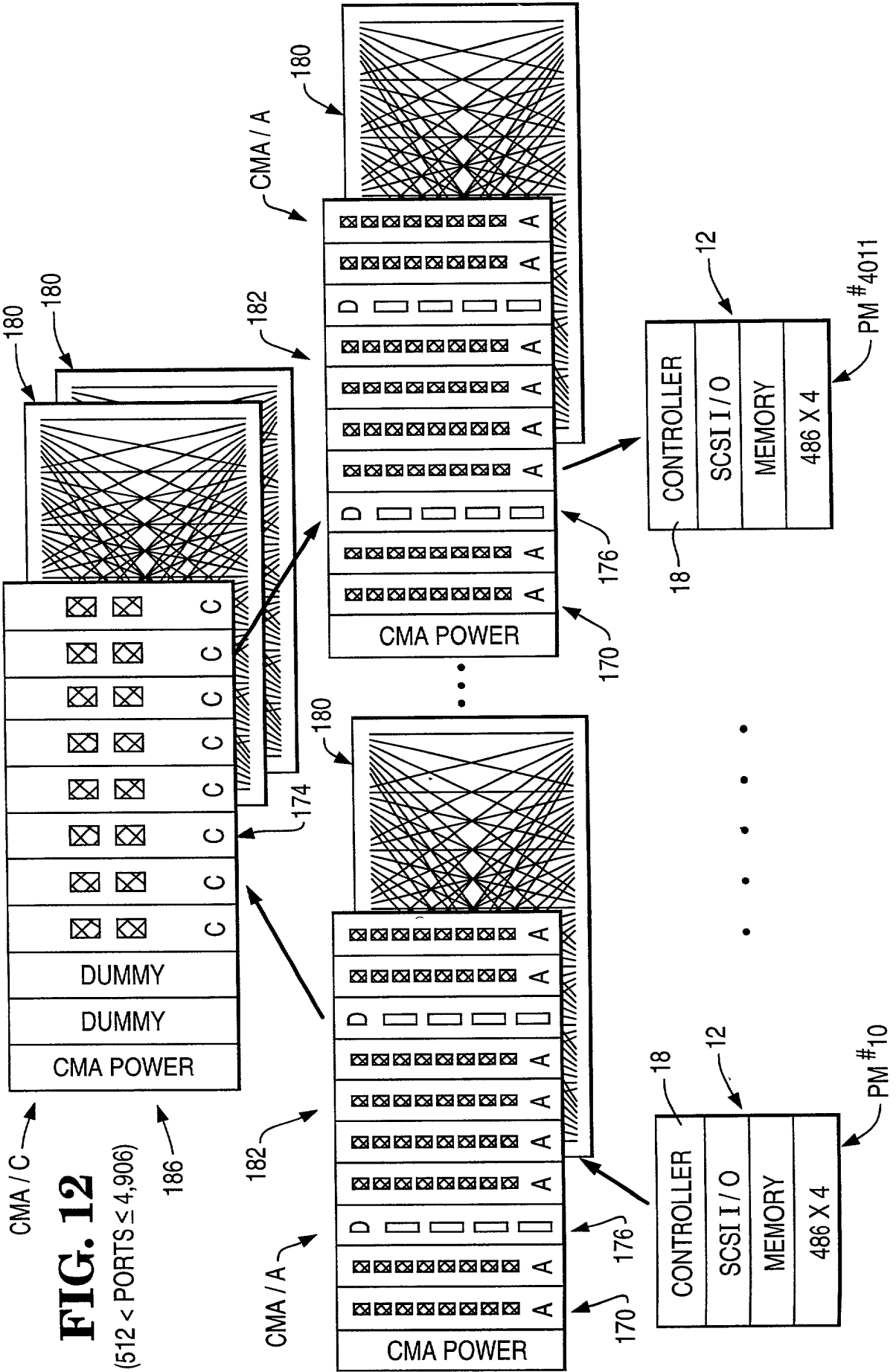
FIG. 8A	FIG. 8B	FIG. 8C
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**FIG. 9**  
( $\leq 64$  PORTS)

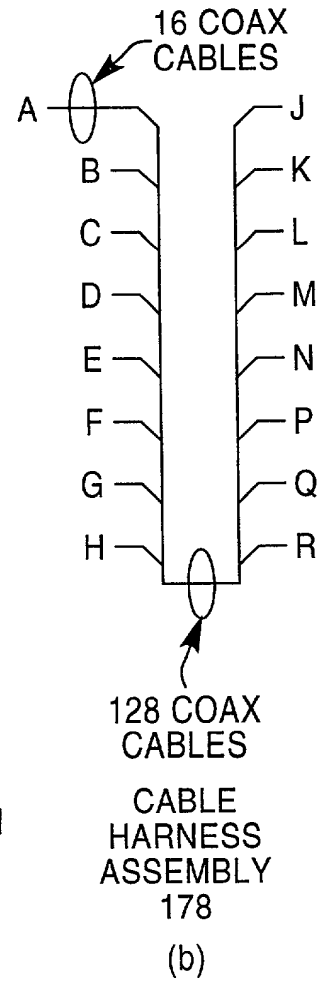
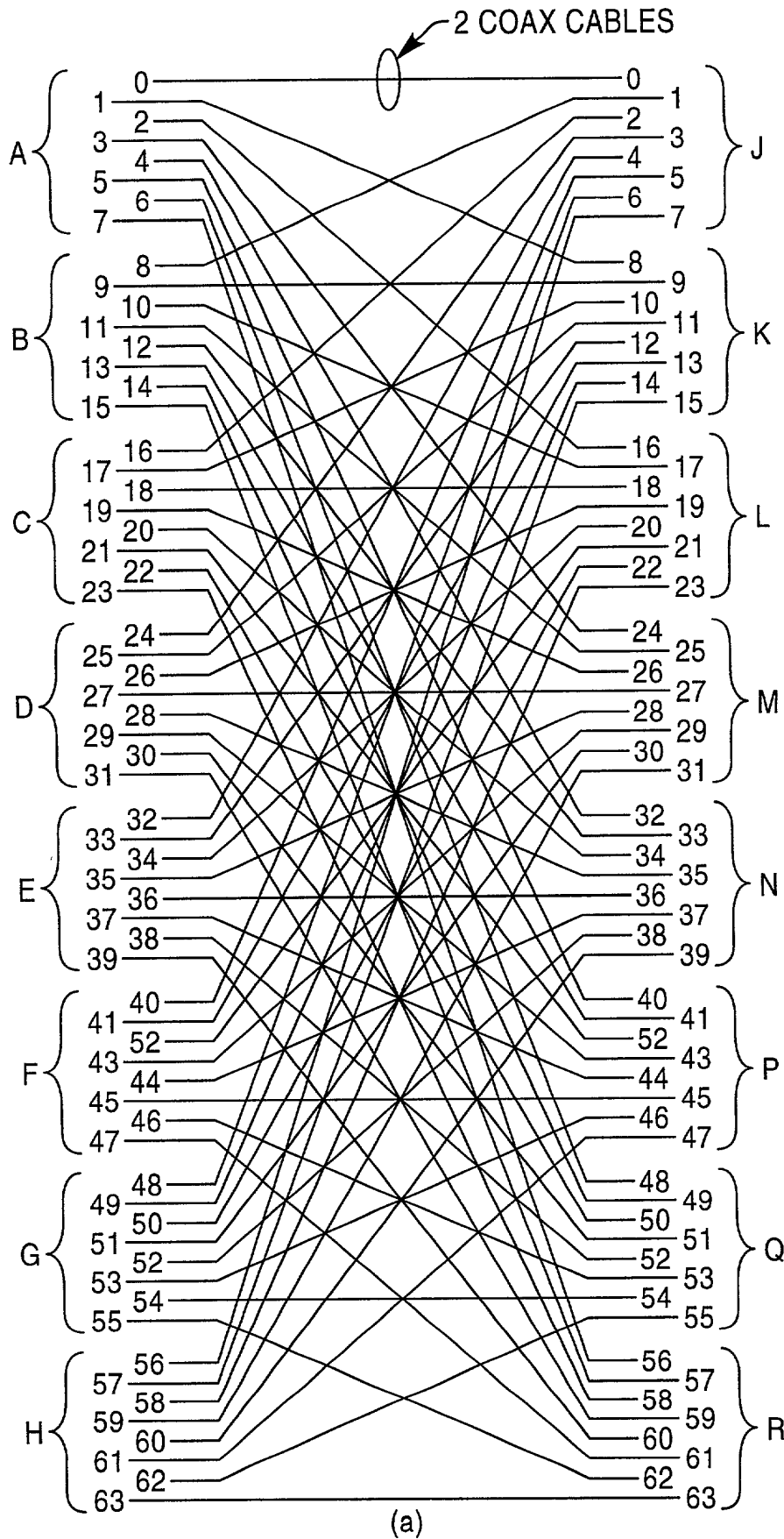






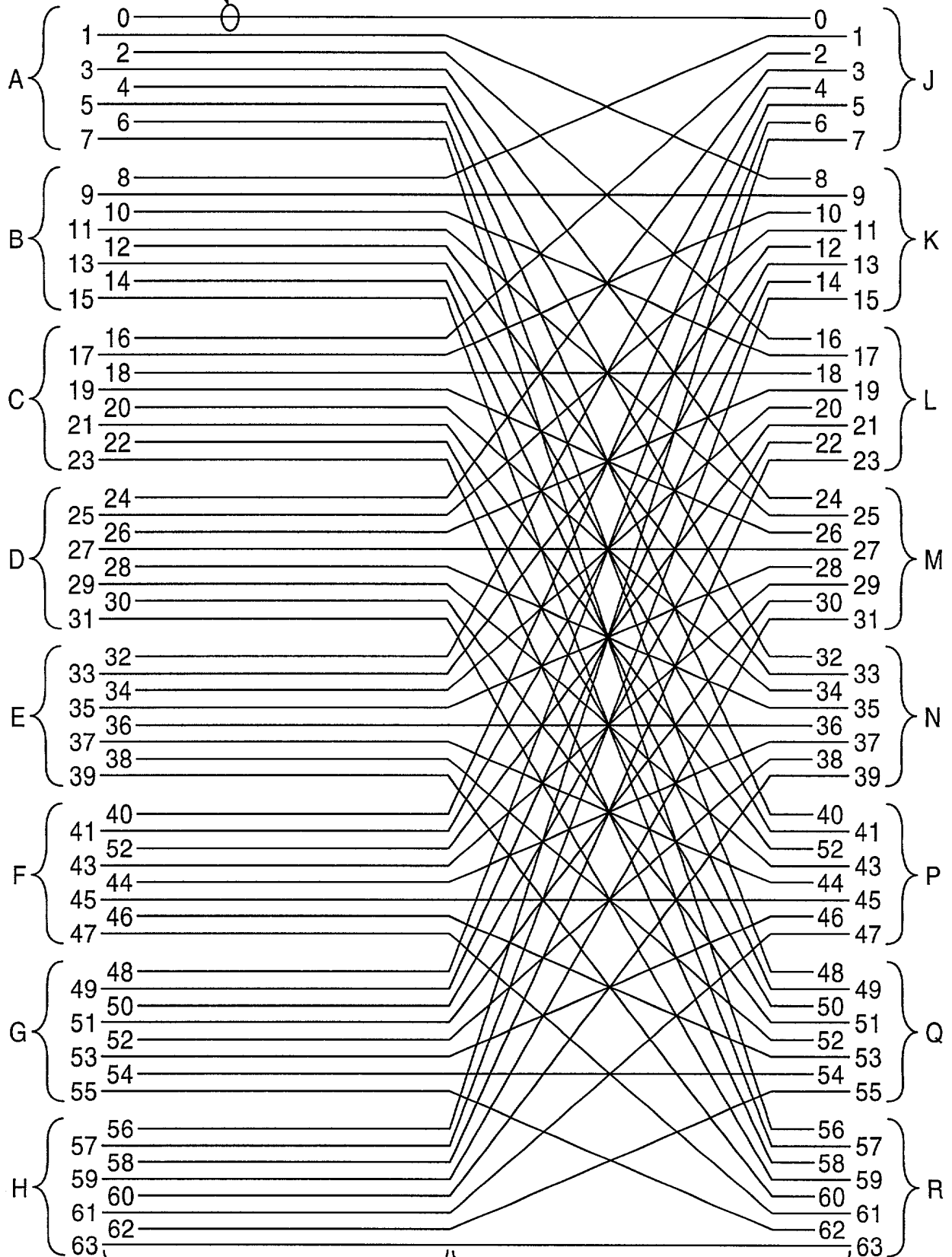


# FIG. 13



2 COAX  
CABLES

**FIG. 14**



EIGHT, 16-CABLE BUNDLES

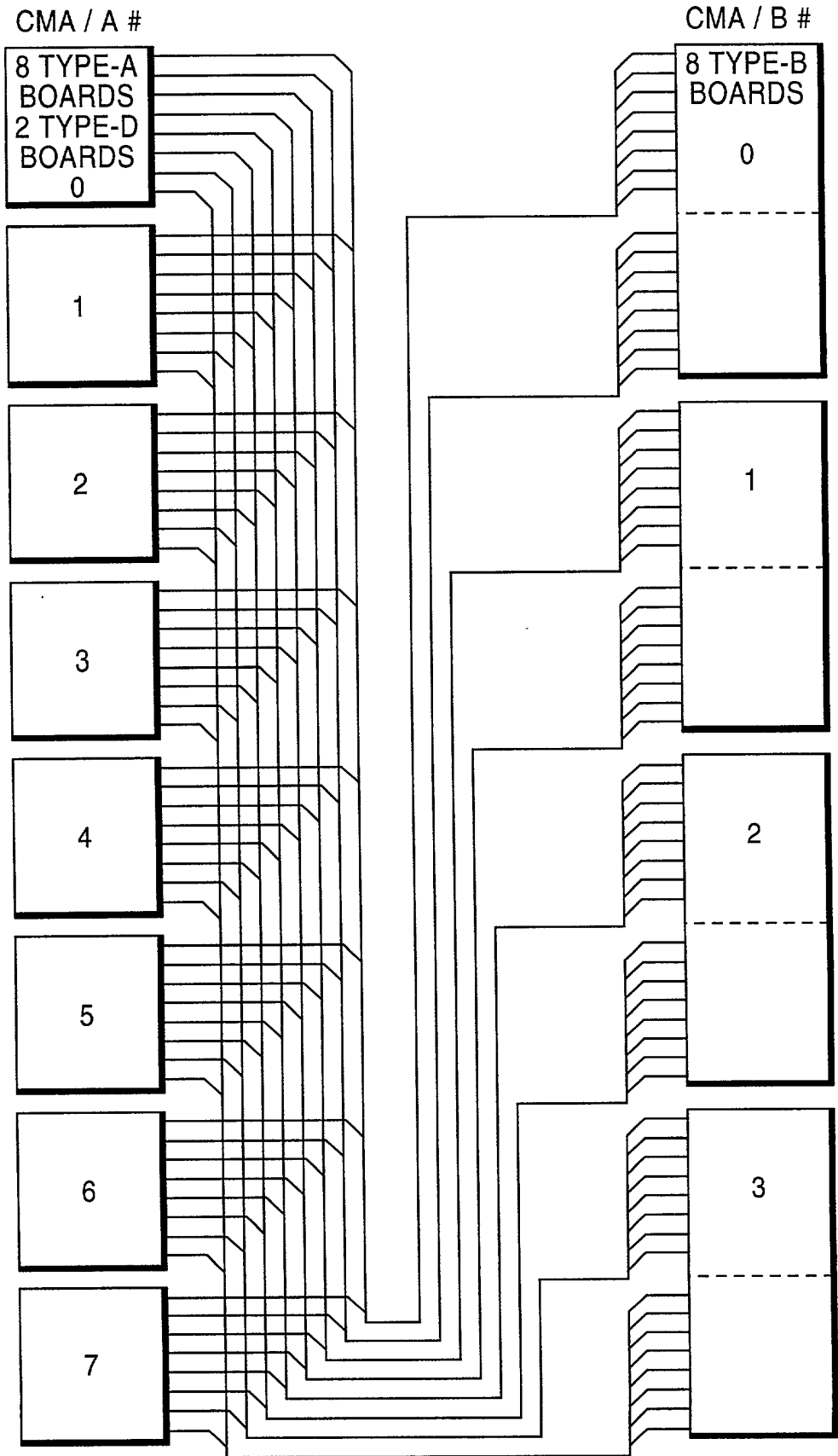
WIRES EMBEDDED  
IN THE BACKPLANE 180



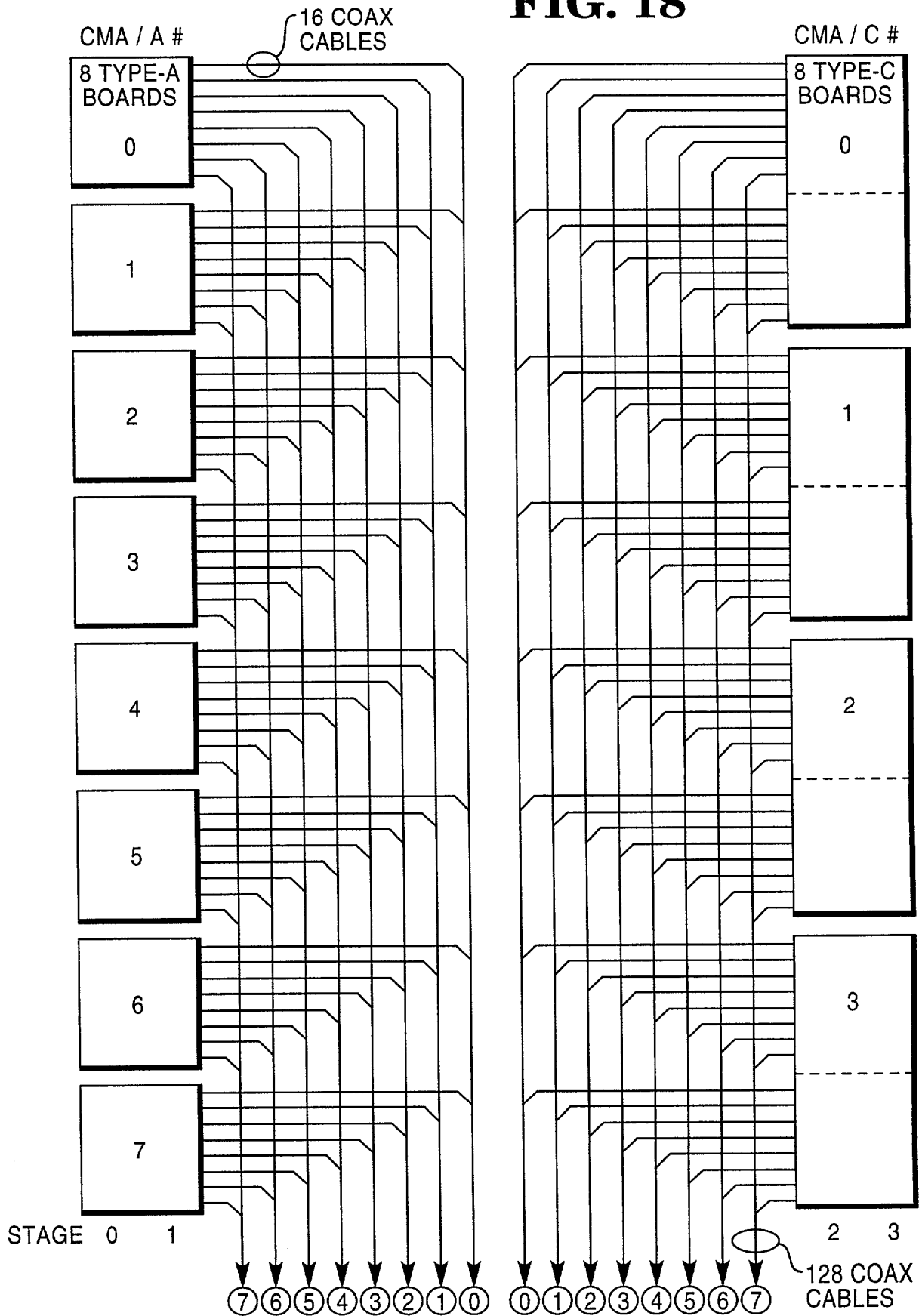




FIG. 17

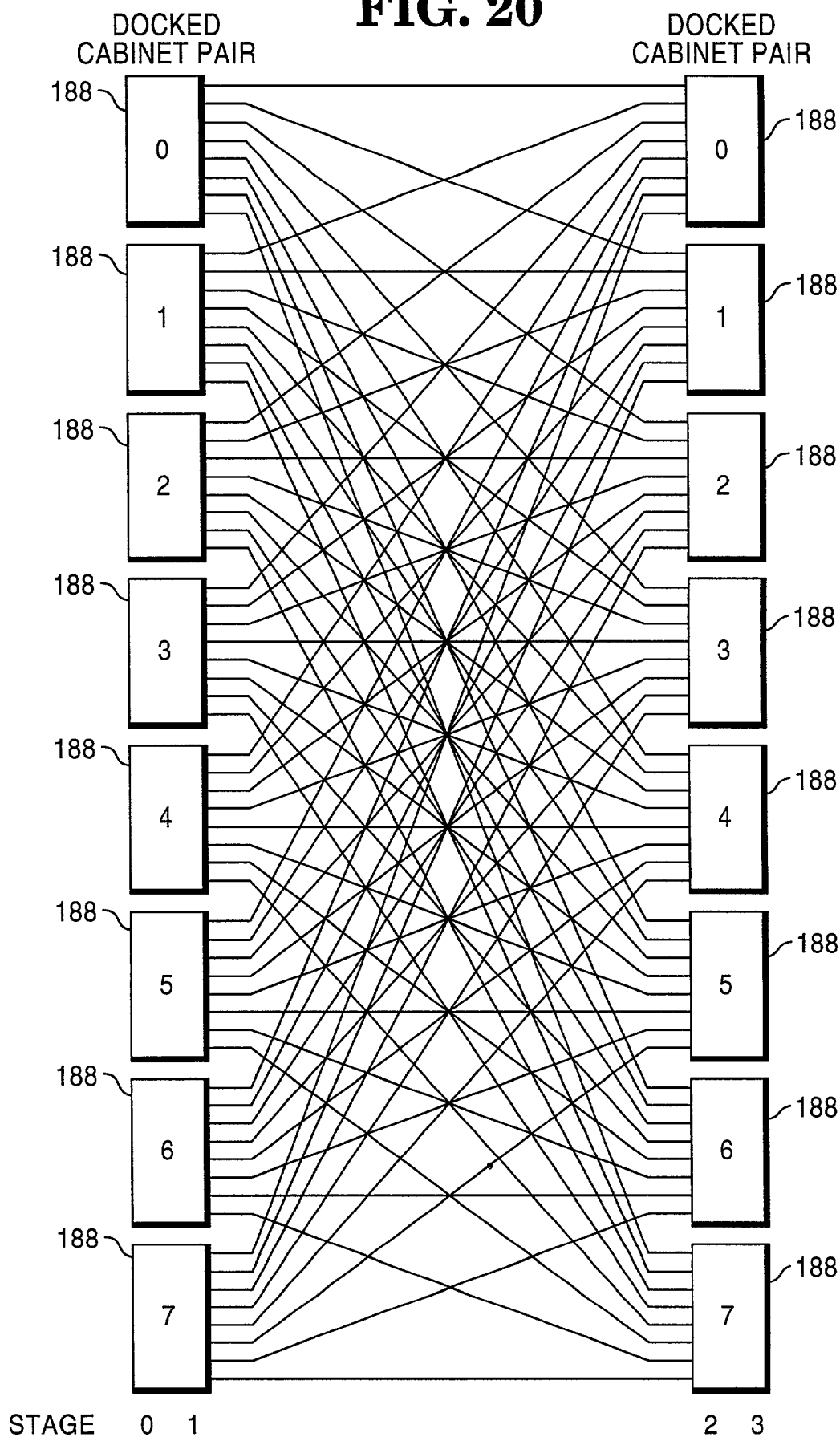


# FIG. 18

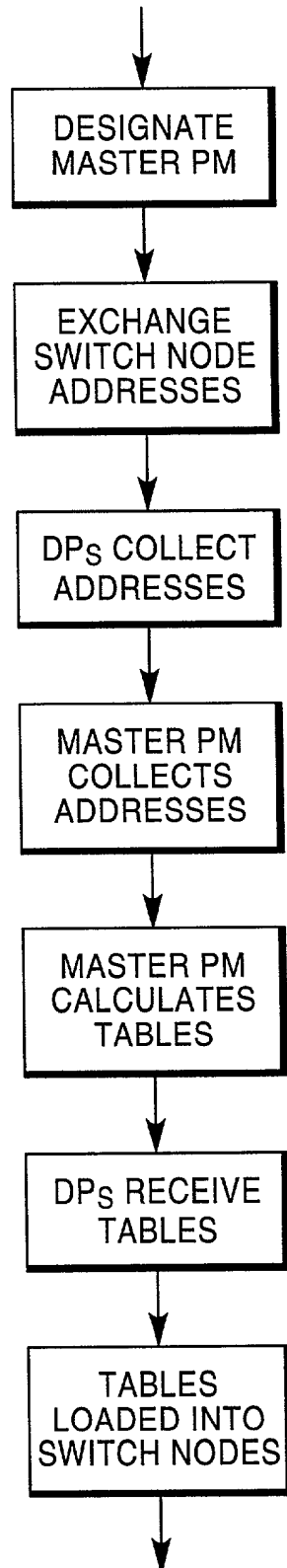




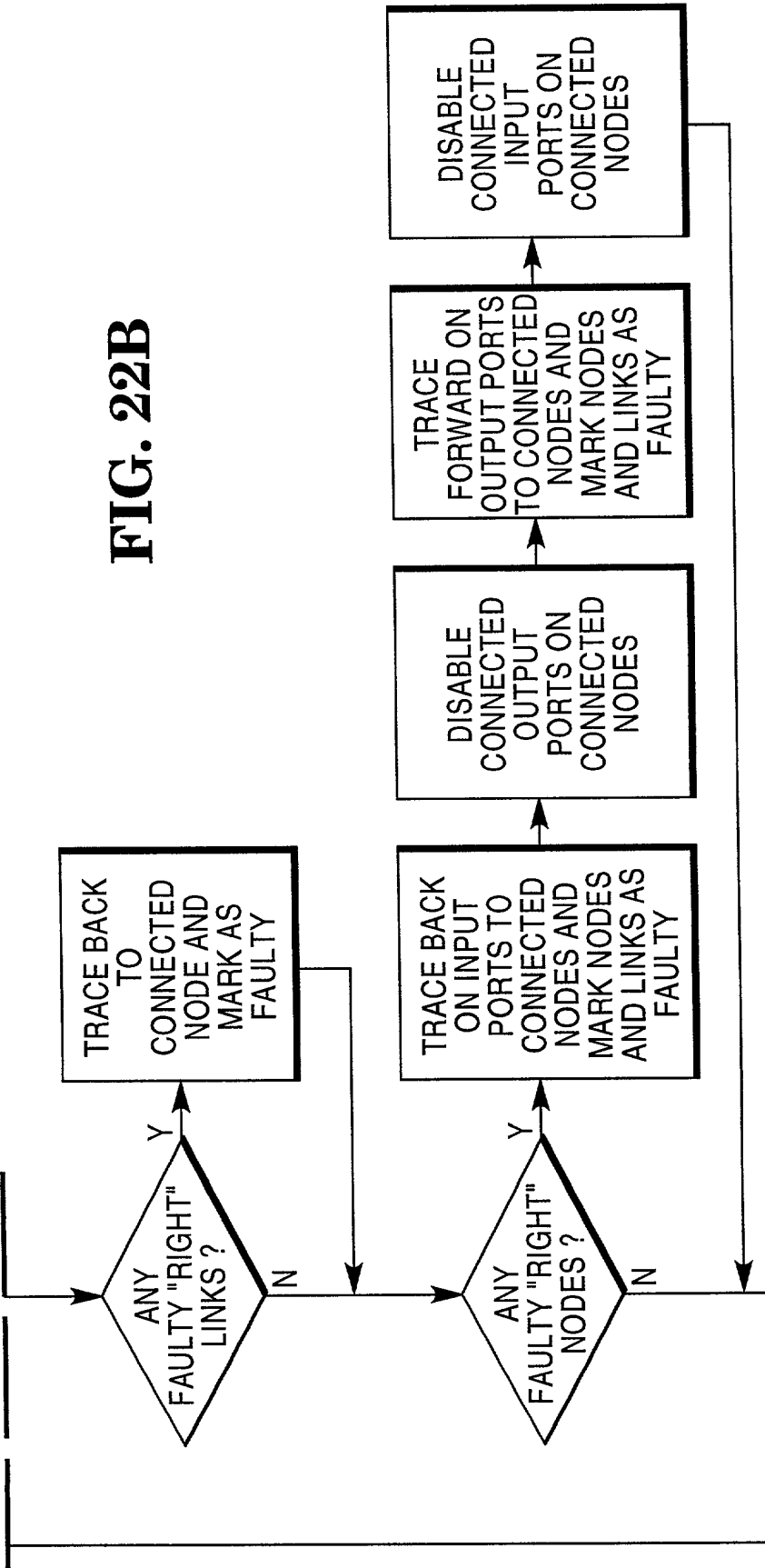
**FIG. 20**



**FIG. 21**



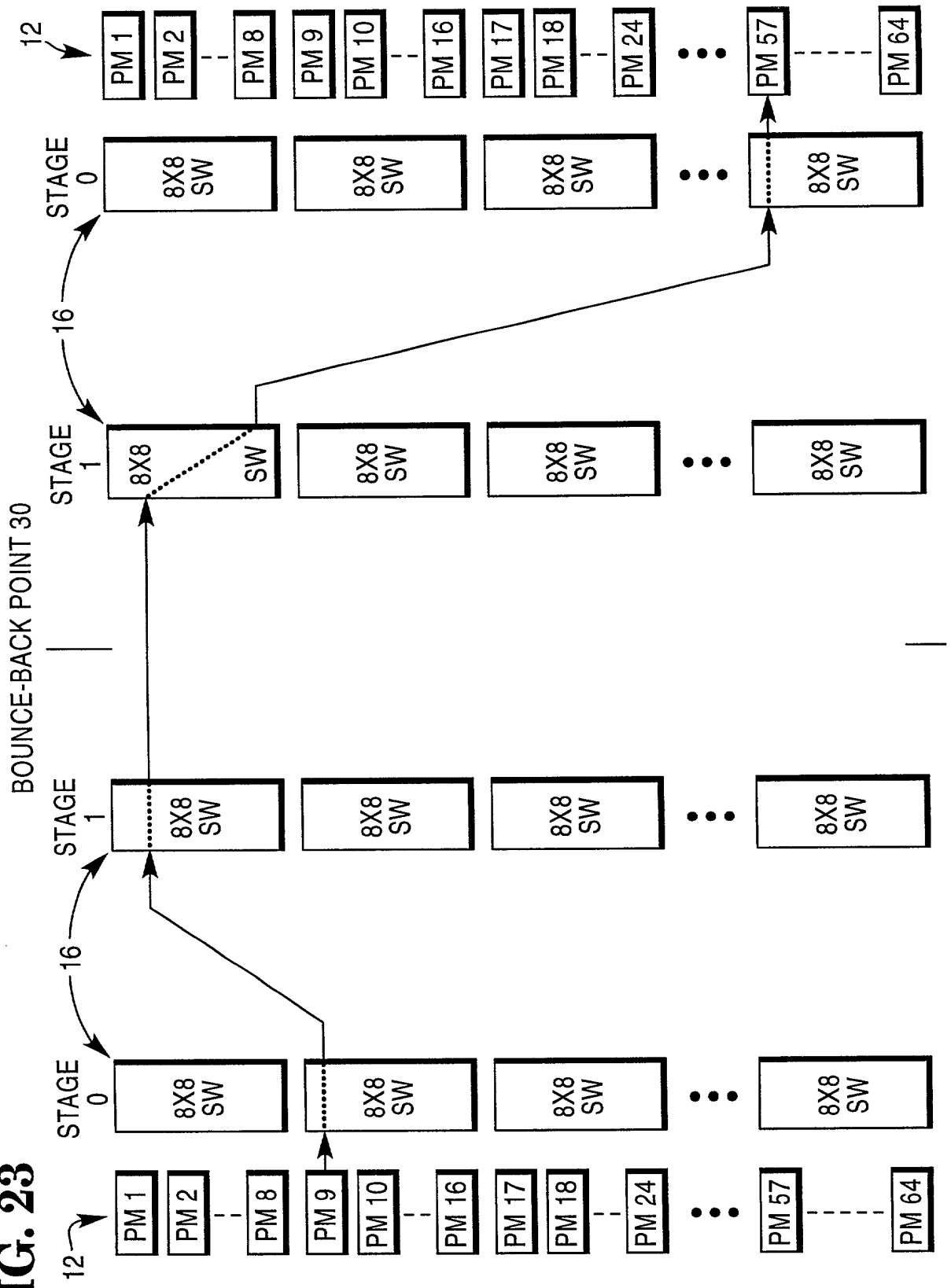




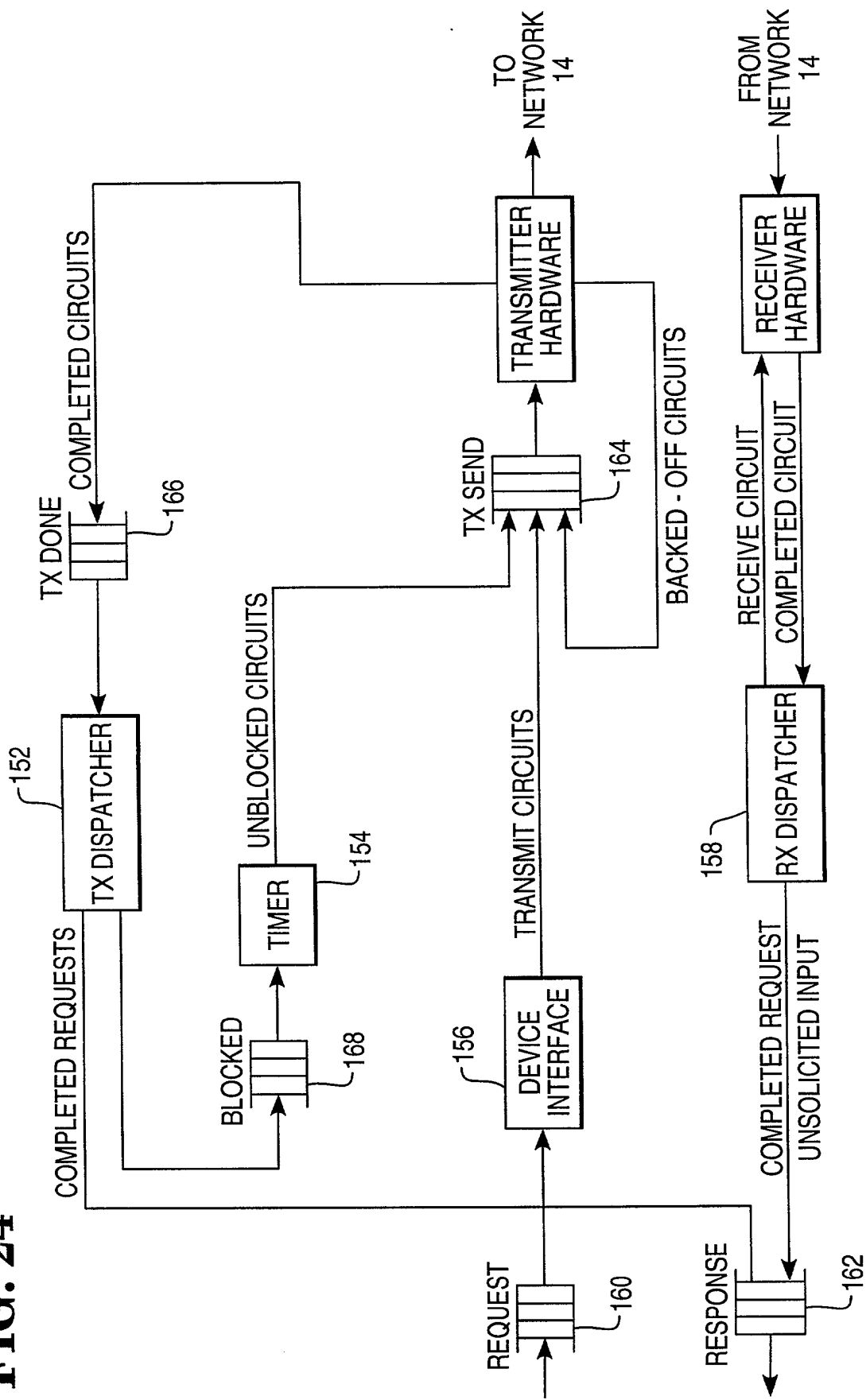
**FIG. 22B**



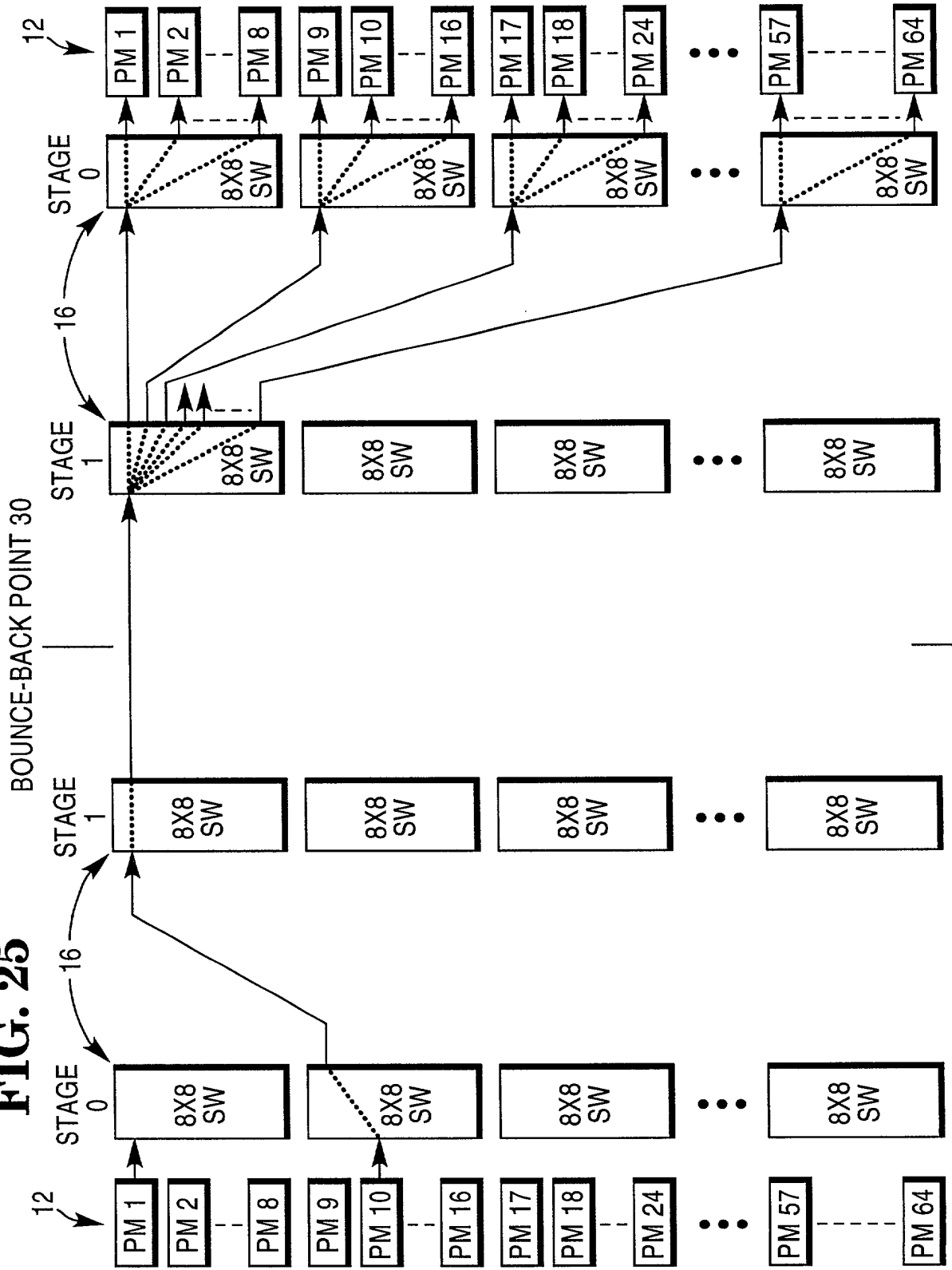
**FIG. 23**



**FIG. 24**



**FIG. 25**



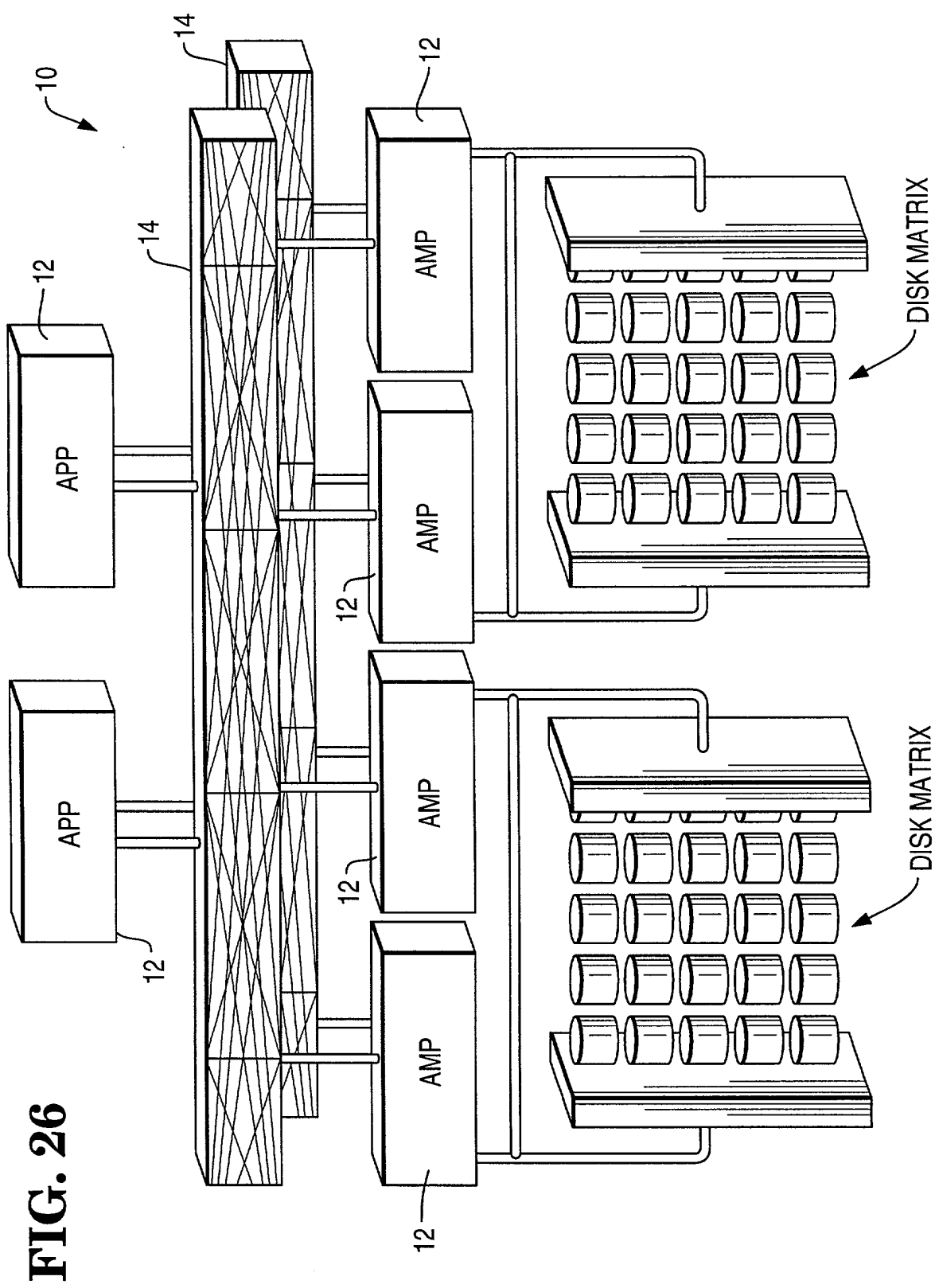


FIG. 26